

# Nicholas Burka

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New York, NY

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## EDUCATION

**Vassar College**, Poughkeepsie, NY; Expected May 2017  
Bachelor of Arts, Computer Science & Cognitive Science  
GPA: Cumulative (3.74), Major (4.0)

Coursework: Introduction to Computer Science (Racket), Data Structures (Java), Discrete Math, Analysis of Algorithms (C/Javascript), Computer Organization, Introduction to Cognitive Science, Perception and Action (C); (Spring Anticipated: Intelligent Robotics, Software Design and Implementation, Knowledge and Cognition, Introduction to Statistics, Linear Algebra)

**Hunter College High School**, New York, NY; June 2013

Coursework: AP Computer Science

Honors: 5 on AP Computer Science test, National Merit Semifinalist, Beatrice Reuss Award for Excellence and Outstanding Commitment to Musical Life at Hunter

## COMPUTER SKILLS

### Languages:

**Java:** data structures (stacks, queues, maps, etc.), simple threading, Game of Life, text adventure games, basic drawing and GUI

**Racket:** Snake, lists, structs, recursion

**HTML/CSS/Javascript:** web games (original and code fixes), WordPress and Tumblr theme edits, Firefox Extension to remove Facebook News Feed, widget to fetch English grammar facts from StackExchange API

**C:** algorithms for runtime comparisons with asymptotic time-complexity analyses, behaviors for BotBall robots using the KISS framework, basic Arduino

**Software/Other:** GitHub, Command line/bash (ssh, FTP), Adobe Creative Suite (Photoshop, Illustrator), NetLogo, Microsoft Office, Unix, JIRA, Audacity, Agile, LaTeX

## WORK EXPERIENCE

**CS Teaching Assistant**, *Computer Science Department*, Vassar College      September 2014-present  
Assist computer science 101 students in assignments and labs in Racket

**Technical Intern**, *Sesame Workshop*, NY      May-August 2014  
Converted Sesame Street website into Android app using PhoneGap; edited two HTML5 games' source code for functionality with Sesame Street content management system; debugged HTML5 web games; updated numerous documentations to reflect current code maintainability practices; updated and created game archive git repositories

**Programmer**, *Cognitive Science Department*, Vassar College      March 2014-May 2014  
Develop and maintain website for robotics laboratory; design and create cognitive science department illustrations

## EXTRA-CURRICULAR ACTIVITIES

**Technical Director**, *WVKR 91.3 FM*, Vassar College, NY      June 2014-present  
Maintain and develop WordPress website with thousands of visitors a week; update automated playlist; systemize recording of all broadcasted material; manage radio staff database and wiki